

IN THE CLAIMS:

Please cancel claims 1-19 and enter new claims 20-29. A complete listing of claims now pending appears below:

Claims **1-19** (cancelled).

20. (new) A process which comprises polymerizing an olefin in the presence of a catalyst system comprising: (a) an organometallic complex which comprises a Group 3-10 transition metal, M, and at least one indenolindolyl ligand that is pi-bonded to M; and (b) an activator which comprises the reaction product of an alkylaluminum compound and an organoboronic acid.

21. (new) The process of claim **20** wherein the catalyst system is supported.

22. (new) The process of claim **21** wherein the support is selected from the group consisting of slicas and aluminum phosphates.

23. (new) The process of claim **20** wherein the olefin is ethylene or a mixture of ethylene with one or more C₃-C₂₀ α-olefins.

24. (new) The process of claim **23** wherein the olefin is ethylene or a mixture of ethylene with one or more C₃-C₁₀ α-olefins.

25. (new) A process which comprises polymerizing an olefin in the presence of a catalyst system comprising: (a) an organometallic complex which comprises a Group 4 transition metal, M, and at least one indenolindolyl ligand that is pi-bonded to M; and (b) an activator which comprises the reaction product of (1) an alkylaluminum compound selected from the group consisting of trimethylaluminum and triethylaluminum and (2) a polyfluoroaryl boronic acid.

26. (new) The process of claim **25** wherein the catalyst system is supported.

27. (new) The process of claim **26** wherein the support is selected from the group consisting of slicas and aluminum phosphates.

28. (new) The process of claim **25** wherein the olefin is ethylene or a mixture of ethylene with one or more C₃-C₂₀ α-olefins.

29. (new) The process of claim **28** wherein the olefin is ethylene or a mixture of ethylene with one or more C₃-C₁₀ α-olefins.